



IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/784,731
Applicant : Arthur E. COLVIN, Jr.
Filed : February 24, 2004
TC/A.U. : 3736
Examiner : Not yet assigned

Docket No. : 2232-205
Customer No. : 06449
Confirmation No. : 9477

INFORMATION DISCLOSURE STATEMENT

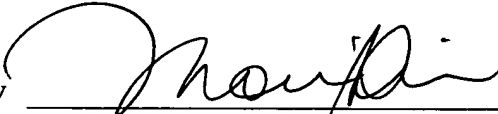
Director of the United States Patent
and Trademark Office
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

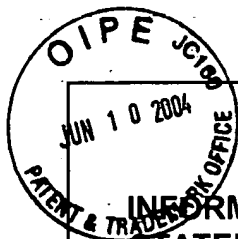
Under the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98,
Applicant submits herewith Form PTO-1449 listing publications
that the Office may wish to consider in examination of the
subject application.

Pursuant to 1.98(d), copies of the references are not
included because they were previously submitted to the Office in
prior application Serial No. 09/963,798, filed September 27,
2001, which issued as Patent No. 6,711,423 on March 23, 2004 and
to which priority is or has been claimed under 35 USC § 120.

Respectfully submitted,

By 

Monica S. Davis
Attorney for Applicants
Registration No. 44,492
ROTHWELL, FIGG, ERNST & MANBECK, p.c.
Suite 800, 1425 K Street, N.W.
Washington, D.C. 20005
Telephone: (202) 783-6040



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

				<i>Complete if Known</i>	
				Application Number	10/784,731
				Filing Date	February 24, 2004
				First Named Inventor	Arthur E. COLVIN, Jr.
				Group Art Unit	3736
				Examiner Name	Not yet assigned
Sheet	1	of	6	Attorney Docket Number	2232-205

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	1	3229684		Nagumo et al.	12-20-1960
	2	3399667		Nishimoto et al.	09-1968
	3	3576554		Temps, Jr. et al.	04-27-1971
	4	3612866		Stevens	10-12-1971
	5	3649833		Leaf	03-14-1972
	6	3800300		Van Oosterhout	03-26-1974
	7	3839708		Bredesen et al.	10-01-1974
	8	3853117		Murr	12-10-1974
	9	3872455		Fuller et al.	03-18-1975
	10	3893111		Cotter	07-01-1975
	11	3949388		Fuller	04-06-1976
	12	3972320		Kalman	08-03-1976
	13	4041954		Ohara	08-16-1977
	14	4160971		Jones et al.	07-10-1979
	15	4186749		Fryer	02-05-1980
	16	4262632		Hanton et al.	04-21-1981
	17	4361153		Slocum et al.	11-30-1982
	18	4401122		Clark, Jr.	08-30-1983
	19	4531526		Genest	07-30-1985
	20	4677008		Webb	06-30-1987
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Complete if Known</i>	
				Application Number	10/784,731
				Filing Date	February 24, 2004
				First Named Inventor	Arthur E. COLVIN, Jr.
				Group Art Unit	3736
				Examiner Name	Not yet assigned
Sheet	2	of	6	Attorney Docket Number	2232-205
	21	4680268		Clark, Jr.	07-14-1987
	22	4703756		Gough et al.	11-03-1987
	23	4704029		Van Heuvelen	11-03-1987
	24	4730188		Milheiser	03-08-1988
	25	4737464		McConnell et al.	04-12-1988
	26	4746830		Holland	05-24-1988
	27	4752115		Murray, Jr. et al.	06-21-1988
	28	4755667		Marsoner	07-05-1988
	29	4854328		Pollack	08-08-1989
	30	4863470		Carter	09-05-1989
	31	4875483		Vollmann et al.	10-24-1989
	32	4935632		Hart	06-19-1990
	33	4992794		Brouwers	02-12-1991
	34	5010893		Sholder	04-30-1991
	35	5012286		Kawano et al.	04-30-1991
	36	5028918		Giles et al.	07-02-1991
	37	5036869		Inahara	08-06-1991
	38	5039490		Marsoner et al.	08-13-1991
	39	5041826		Milheiser	08-20-1991
	40	5084699		DeMichele	01-28-1992
	41	5095309		Troyk et al.	03-10-1992
	42	5143066		Komives et al.	09-01-1992
	43	5157262		Marsoner et al.	10-20-1992
Examiner Signature					Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Complete if Known</i>	
				Application Number	10/784,731
				Filing Date	February 24, 2004
				First Named Inventor	Arthur E. COLVIN, Jr.
				Group Art Unit	3736
				Examiner Name	Not yet assigned
Sheet	3	of	6	Attorney Docket Number	2232-205
	44	5211129		Taylor et al.	05-18-1993
	45	5218343		Stobbe et al.	06-08-1993
	46	5235326		Beigel et al.	08-10-1993
	47	5281825		Berndt et al.	01-25-1994
	48	5300120		Knapp et al.	04-05-1994
	49	5314457		Jeutter et al.	05-24-1994
	50	5342789		Chick et al.	08-30-1994
	51	5517313		Colvin, Jr.	05-14-1996
	52	5628310		Rao et al.	05-13-1997
	53	5630836		Prem et al.	05-20-1997
	54	5633724		King et al.	05-27-1997
	55	5674288		Knapp et al.	10-07-1997
	56	5682149		Hofman	10-28-1997
	57	5708957		Chuang et al.	01-13-1998
	58	5725578		Knapp et al.	03-10-1998
	59	5735887		Barreras Sr., et al.	04-07-1998
	60	5833603		Kovacs et al.	11-10-1998
	61	6,304,766		Colvin, Jr.	10-16-2001
	62	6,330,464		Colvin, et al.	12-11-2001
Examiner Signature					Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Complete if Known</i>			
				Application Number		10/784,731	
				Filing Date		February 24, 2004	
				First Named Inventor		Arthur E. COLVIN, Jr.	
				Group Art Unit		3736	
				Examiner Name		Not yet assigned	
Sheet	4	of	6	Attorney Docket Number		2232-205	
	63	5855609			Knapp		01-05-1999
	64	5922285			Melendez et al.		07-13-1999
	65	5939609			Knapp et al.		08-17-1999
	66	5977431			Knapp et al.		11-02-1999
	67	6002954			Van Antwerp et al.		12-14-1999
	68	6011984			Van Antwerp et al.		01-04-2000
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office ³ Code	Number ⁴	Kind ⁵ (if known)			
	69	DE	4341903			06-1995	
	70	DE	19615380	A1	King et al.	03-06-1997	
	71	DE	19826294	C1	Potzchke et al.	02-10-2000	
	72	EP	309214	A2 & A3	Curry et al.	03-29-1989	
	73	EP	597566	A1	Hui et al.	05-18-1994	
	74	EP	619101			12-1994	
	75	EP	646313			05-1995	
	76	EP	693271	A1	Slate et al.	01-24-1996	
	77	EP	834734	A2 & A3	Melendez et al.	04-08-1998	
	78	FR	2680672			05-1993	
	79	GB	2258589			02-1993	
	80	WO	8704900			08-1987	
	81	WO	9207505			05-1992	
Examiner Signature						Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Complete if Known</i>			
				Application Number		10/784,731	
				Filing Date		February 24, 2004	
				First Named Inventor		Arthur E. COLVIN, Jr.	
				Group Art Unit		3736	
				Examiner Name		Not yet assigned	
Sheet	5	of	6	Attorney Docket Number		2232-205	
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office ³ Code	Number ⁴	Kind ⁵ (if known)			
.	82	WO	9616593	A1	Soller	06-06-1996	
	83	WO	9625978	A1	Prutchi et al.	08-29-1996	
	84	WO	9733513	A1	Knapp et al.	09-18-1997	
	85	WO	9852023	A1	Colvin	11-19-1998	
	86	WO	9966309 (AB only)		(# 71 is part of this family)	12-1999	
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published					T ²
	87	Jie Lin et al. "Sol-gel glass as a matrix for chemical and biochemical sensing" <u>Trends in Analytical Chemistry</u> , 16(4):200-211 (1997)					
	88	Alan Baron et al. "Submillisecond response times of oxygen-quenched luminescent coatings" <u>Rev. Sci. Instrum.</u> 64(12):3394-3402 (1993)					
	89	Brauker et al., "Neovascularization of synthetic membranes directed by membrane microarchitecture", <u>Journal of Biomedical Materials Research</u> , Vol. 29, 1517-1524 (1995)					
	90	Chuang and Arnold, "Radioluminescent Light Source for Optical Oxygen Sensors", <u>Analytical Chemistry</u> , Vol. 69, No. 10, 1899-1903, 1997					
	91	Geller, et al., "Immunoisolation of Tumor Cells: Generation of Antitumor Immunity Through Indirect Presentation of Antigen", <u>Journal of Immunotherapy</u> , 20(2):131-137 (1997)					
	92	Geller, et al., "Use of An Immunoisolation Device for Cell Transplantation and Tumor Immunotherapy", Baxter Healthcare Corp., Illinois, pp. 1-23 w/attached Figures 1-7 (undated)					
	93	Shamlou et al, "Amphiphilic networks. X. Diffusion of glucose and insulin (and nondiffusion of albumin) through amphiphilic membranes", <u>Journal of Biomedical Materials Research</u> , Vol. 35, 157-163 (1997)					
	94	Kennedy, "Tailoring polymers for biological uses" <u>Chemtech</u> , pp. 24-32, Feb. 1994					
Examiner Signature					Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Complete if Known</i>	
				Application Number	10/784,731
				Filing Date	February 24, 2004
				First Named Inventor	Arthur E. COLVIN, Jr.
				Group Art Unit	3736
				Examiner Name	Not yet assigned
Sheet	6	of	6	Attorney Docket Number	2232-205
	95	Tuan, "Recombinant Protein Protocols, Detection and Isolation", <u>Methods in Molecular Biology</u> , Vol. 63, pp. 373-387			
	96	Ward, "Development of a Hybrid Artificial Pancreas with a Dense Polyurethane Membrane", <u>ASAIO Journal</u> , Vol. 39, No. 3, pp. M261-M267			
	97	Wilkins, "Biomaterials for Implanted Closed Loop Insulin Delivery System: A Review", <u>Biosensors and Bioelectronics</u> 5, pp. 167-203, 1990			
	98	Advertisement pamphlet entitled "RFID: Everything you need to know" by Motorola Indala Corporation, 1996, 1997 (5 pages)			
	99	Pamphlet entitled "Divvyng up the biostent market", <u>BioCentury</u> , <u>The Bernstein Report on BioBusiness</u> , pp. A6, August 10, 1998			
	100	Advertising pamphlet entitled "Biocompatibility, controlled porosity, inertness, strength and comformability.", <u>Gore-Tex Medical Products</u> , 1990 (4 pages)			
	101	Product pamphlet for "Preclude Pericardial Membrane", <u>W.L. Gore & Associates, Inc.</u> , 1996 (2 pages)			
	102	Product pamphlet for "The Duraflor® Biocompatible Treatment", <u>Baxter Healthcare Corporation</u> , 1995 (4 pages)			
	103	"Laminin-5 inhibits human keratinocyte migration", <u>Exp Cell Res</u> , 233:2 330-9, 1998 (abstract only)			
	104	"Mini-Portable Reader Standard and Extended Models" Hughes Identification Devices information pamphlet HS5105L Series (4 pages)			
	105	"Implantable Transponder" Trovan Electronic Identification Systems pamphlet, Model - ID 100. (2 pages)			
	106	"Hand Held Reader" Trovan Electronic Identification Systems pamphlet, Model - LID 500. (2 pages)			
	107	Wouters et al. "A Low Power Multi-Sensor Interface for Injectable Microprocessor-Based Animal Monitoring System" <u>Sensors and Actuators A</u> , 41-42 (1994) 198-206			
	108	"DIOG Database Guide (Standard Search Service)" SRS Information Technologies, 1987 (7 pages)			
	109	"Injectable Transponder Small Size" Hughes Identification Devices information pamphlet TX1400L (2 pages)			
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.